

APTI 435: Atmospheric Sampling
 California Polytechnic State University
 San Luis Obispo, CA
 July 23 – 27, 2007

Workshop Objectives

California Polytechnic State University, in conjunction with the United States Air Pollution Training Institute (APTI), will be co-sponsoring a comprehensive five-day workshop on atmospheric sampling methods. Students successfully completing this course will understand how to select sampling methods and the instruments appropriate to various sampling needs. The students will be able to calibrate and operate laboratory air sampling devices. They will learn about factors affecting sample collection efficiency. Topics discussed in lectures and investigated in the laboratories include methods of calibration, use of flow rate measuring instruments, general techniques for sampling the atmosphere, and reference methods for sampling and analyzing criteria pollutants

Who Should Attend

This course is geared towards environmental professionals who want to learn about atmospheric sampling methods, reference methods for sampling and analyzing criteria pollutants and operation of related equipment.

What We'll Focus On

LECTURE

- Generation of test atmospheres of gaseous pollutants
- Effects of variables on atmospheric sampling
- Selection of sampling train components
- Air quality surveillance networks and their siting
- Concepts and procedures for ensuring quality in atmospheric sampling

PARTICULATE LABORATORY

- High volume sampler and orifice calibration.
- Performance audit of reference flow device.
- Use of constant flow controllers.

FLOW LABORATORY

- Calibration of flow devices including wet test meters, limiting orifices, rotameters, and mass flow meters.
- Preparation of dynamic calibration gas via a dilution system.

CONTROLLED TEST ATMOSPHERE LABORATORY

- Preparation of dynamic calibration gas via a permeation system coupled with a dilution system calibration of continuous monitors using these calibration gases.

Workshop Manuals

Manuals will support workshop presentations and field videos.

- **Student Workbook:** *This workbook contains the course agenda, copies of selected slides and background material from each of the topic areas along with specific method checklists.*
- **Student Manual:** *This manual contains detailed reference material designed to supplement the student workbook.*

At the conclusion of this course, students should have an understanding of how to select sampling methods and the instruments appropriate to various sampling needs.

NOTE: The workshop will begin at 9:00 a.m. the first day and promptly at 8:00 a.m. each following day and end at approximately 4:30 p.m. On the last day, class will end at noon.

Register Today—Space is Limited!

This will be a special version of the class taught by experienced instructors from Cal Poly, and local and state air pollution control agencies. As a result, this course will be an especially valuable experience for attendees.

Additional course details are available by contacting Diana Gould-Wells (dgwells@calpoly.edu) or on-line at <http://ceenve.calpoly.edu/cota/epa/Default.htm>

There is a fee of \$ 400 for non – governmental attendees.

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This form may be duplicated for additional registrations. Please print in ink or type. There is a fee of \$ 400 for non – governmental attendees.

Last Name	First Name	Middle Initial
Job Title		E-mail Address
Company/Organization		
Business Address (no. and street or box no.)		
City	State	Zip Code
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Business Telephone	Business Fax	



Return to:

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If you have questions, please contact:
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E-Mail: dgwells@calpoly.edu, or
Dr. Hal Cota at 805-756-2559
E-mail: hcota@calpoly.edu
<http://ceenve.calpoly.edu/cota/epa/>

Location

The workshop will be held at Cal Poly. Set in the idyllic countryside of central California and offering nearby panoramic views of the surrounding vineyards and the Pacific Ocean, Cal Poly is one of the leaders of environmental training programs for the EPA Air Pollution Training Institute (APTI). Further information on the Program is available on-line at <http://ceenve.calpoly.edu/cota/epa/Default.htm>



Cal Poly Engineering Bldg. 13

Accommodations

A limited number of rooms at the government rate of \$104 per night, plus tax under the name *Air Pollution Training Institute* at:

Cuesta Motor Inn
www.lacuestainn.com
2074 Monterey St
San Luis Obispo, CA 93401
(805) 543-2777

In order to guarantee the government room rate of \$104 per night, plus tax, reservations must be made no later than June 22, 2007.

Other accommodations are listed on the following web site:
<https://visitslo.com/cm/Lodging/Home.html>



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